

## USC 340 - Animal and functionality of animal products (AFPA)

### SUPERVISORY BODIES



In view of the increase in aging populations worldwide (for example, more than 30% of the French population will be over the age of 60 in 2035), as well as the contamination of agrosystems by micropollutants and high dependence of EU countries for imported aquatic products, our research targets the major challenges faced by society today that involve food safety and population aging, particularly that related to animal production and the quality of animal-derived products. To address these issues, our research focuses on:

- the development of fish farming by domestication of new species and diversification of production, and
- the assurance of the quality and safety of animal-derived food products,

### ÉTABLISSEMENTS ASSOCIÉS

INRAE

In order to answer the following questions: How to provide sustainable territorial development of aquatic and terrestrial animal productions under acceptable conditions for consumers (safe foods) ? How can dietary animal products be used or developed to prevent/treat deficits associated with brain aging ?

### UNIT MANAGER

Pascal FONTAINE

To address these questions, our unit is organized into three projects and two crossover actions :

### LOCATION

**Region :** Grand Est (Nancy)

**University site :** Université de Lorraine

**Address :**

UR AFPA - ENSAIA - 2 avenue de la Forêt de Haye - BP 20163 - 54505 Vandoeuvre-lès-Nancy Cedex

- Project DAC : Domestication in inland aquaculture (domestication of new species of fish, development of a generic approach for fish domestication, effects of domestication process on fish)
- Project MRCA: Micropollutants and residues in food chain (evaluation and control of micropollutants and residues in the food chain)
- Project QUALIVIE :Quality of diet and aging (Effect of dietary lipid bioavailability on cognitive deficits of the aging brain; identification of nutritional strategies to minimize pathological brain aging)
- Crossover action NeuroPOP (MRCA-QUALIVIE) : Evaluation of food chain emerging pollutant effects on lipid homeostasis, neuron functions and brain aging
- Crossover action OVOLIP (DAC-QUALIVIE) : Lipids as determinants of fish egg quality

**Unit website :** <http://www.urafpa.fr>

### Key figures :

24 professors, associated professors and researchers  
10 PhD students